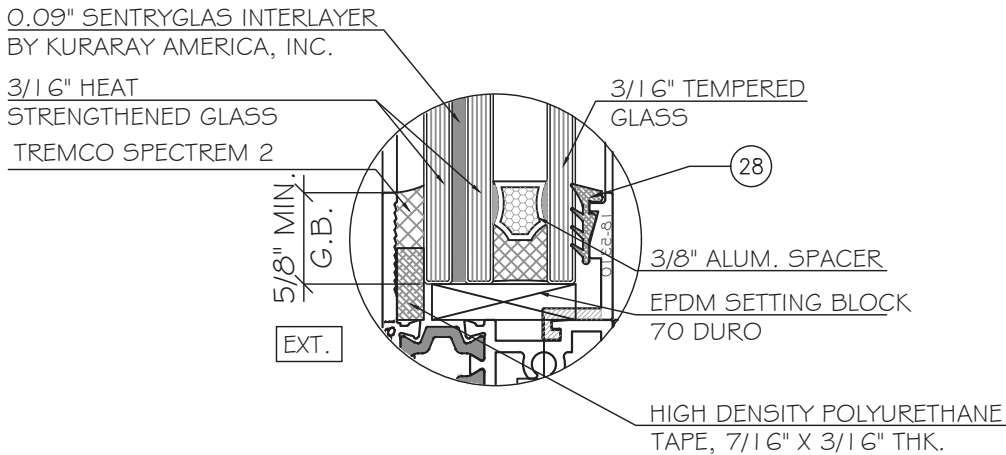
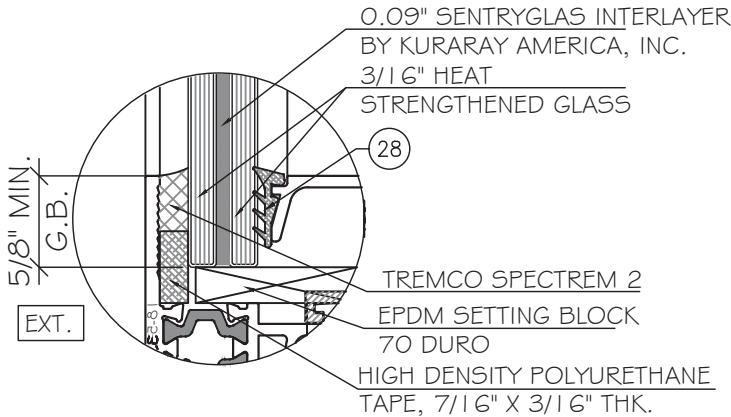


CUHADAROGLU METAL SAN.PAZ.A.S
SERIES TH-SH-33 ALUMINUM SINGLE HUNG WINDOW - (L.M.I)



G1 GLASS TYPE 'G1'
1 1/16" NOMINAL OVERALL



G2 GLASS TYPE 'G2'
7/16" NOMINAL OVERALL

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 7TH EDITION OF FLORIDA BUILDING CODE 2020/ 8TH EDITION OF FLORIDA BUILDING CODE 2023 INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

- WINDOWS ARE RATED FOR LARGE MISSILE IMPACT. IMPACT SHUTTERS ARE NOT REQUIRED.

- THESE WINDOWS ARE APPROVED FOR AIR AND WATER INFILTRATION.

- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS.
ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

- ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/ METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 7TH EDITION OF FLORIDA BUILDING CODE 2020/8TH EDITION OF FLORIDA BUILDING CODE 2023 SECTION AS APPLICABLE.

- METAL STRUCTURES BY OTHERS TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.

- ULTIMATE LOAD OBTAINED FROM ASCE 7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.

-MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE LABELING TO COMPLY WITH SECTION 1709.9.2.

- SEALANT:
ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER GLAZING BEAD TO FRAME
INSTALLATION FASTENERS SEALED WITH SILICONE SEALANT.

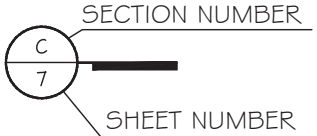
NOTE:
GLASS COMPLIES WITH ASTM E1300-09
(3 SEC. GUSTS).

USE CHARTS AS FOLLOWS.

- STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD OR WIND TUNNEL REPORTS.
- STEP 2: SEE SHEET E1#E2#E3 FOR APPROVED TYPICAL ELEVATION & CONFIGURATION.
- STEP 3: ANCHOR OPTION SEE SHEET A1. ANCHOR LAYOUT SEE SHEET E1#E2#E3.
- STEP 4: THE LOWEST VALUE RESULTING FROM STEPS 2 & 3 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.

ABBREVIATIONS AND SYMBOLS

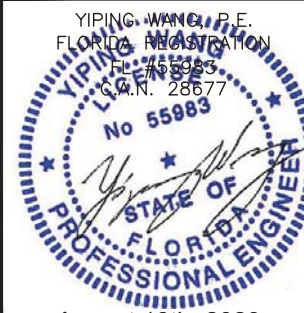
G.B. - GLASS BITE
D.L.O. - DAYLITE OPENING
F.H. - FRAME HEIGHT
F.W. - FRAME WIDTH
W/ - WITH
W/O - WITHOUT
O.C. - ON CENTER



LIMITATIONS OF USE

- A- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; I.E. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
- B- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- C- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- D- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D.
- E- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

FL42310.1



August 18th, 2023

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PKWY #301

MIRAMAR, FL 33027

P: 305.271.0117

www.MCYEngineering.com

MCY@mcyeengineering.com

SERIES TH-SH-33 ALUMINUM SINGLE HUNG WINDOW - LMI

CUHADAROGLU METAL SAN.PAZ.A.S

YAKUPLU MAH. HURRIYET BULVARI NO:6-8 BEYLIKDUZU

ISTANBUL, TURKIYE 34524

TEL. +90 212 224 2020 FAX. +90 212 224 2040

Rev. No.	Date	Drawn By	Description
06.16.2023	James	Drawn By	NEW APPLICATION
05/30/2023			

Drawn Date
05/30/2023

Scale

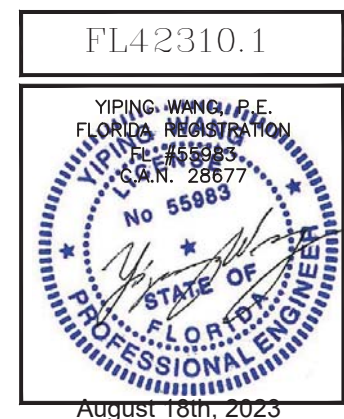
DRAWING NO.
AD23-08

COVER

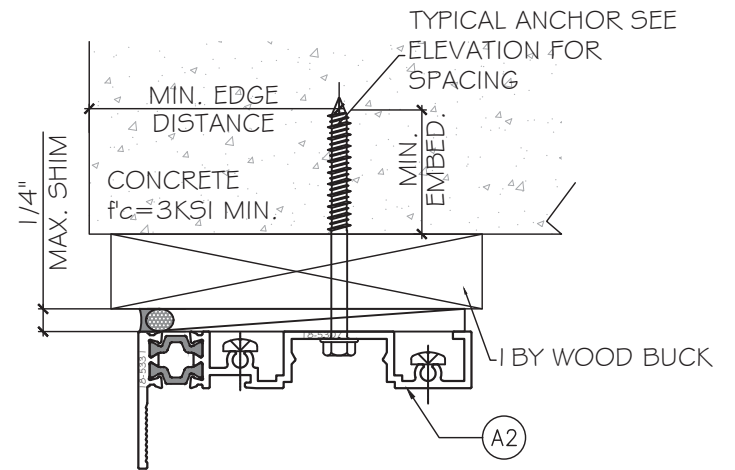
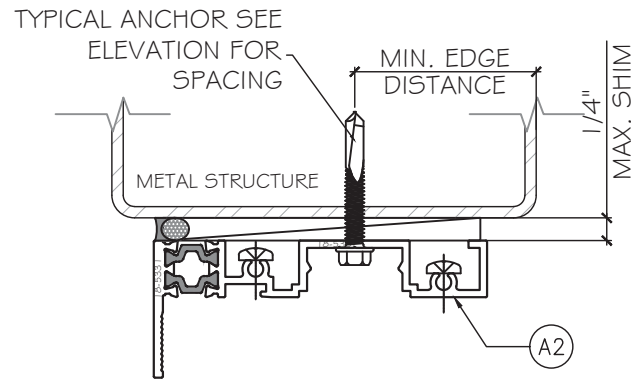
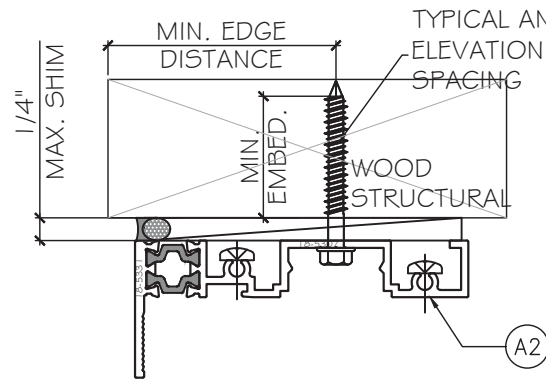
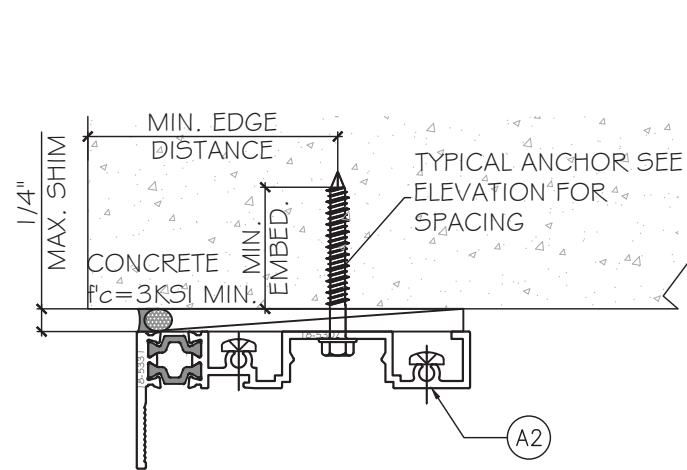
Sheet No.
1 OF 13

DESIGN LOAD (PSF)	
FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC	
+70	-80

DESIGN LOAD (PSF)	
FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC	
+70	-80



August 18th, 2023



NOTE: WOOD BUCKS & METAL STRUCTURES NOT BY CUHADAROGLU METAL SAN. PAZ. A.S. MUST BE PROPERLY SECURED TO SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURES.

TYPICAL ANCHOR TYPES

ANCHOR TYPE 'A' - 1/4" DIA. ULTRACON+ BY 'DEWALT'(F_u=164KSI, F_y=148KSI) INTO 2BY WOOD BUCKS OR WOOD STRUCTURE, 1 1/2" MIN. PENETRATION INTO WOOD (HEAD/ JAMB/ SILL)

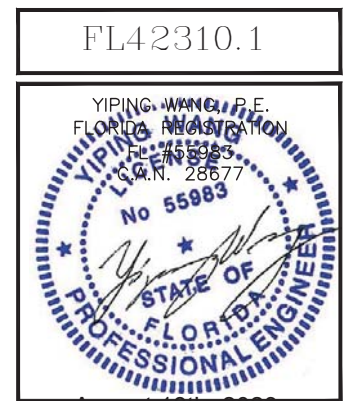
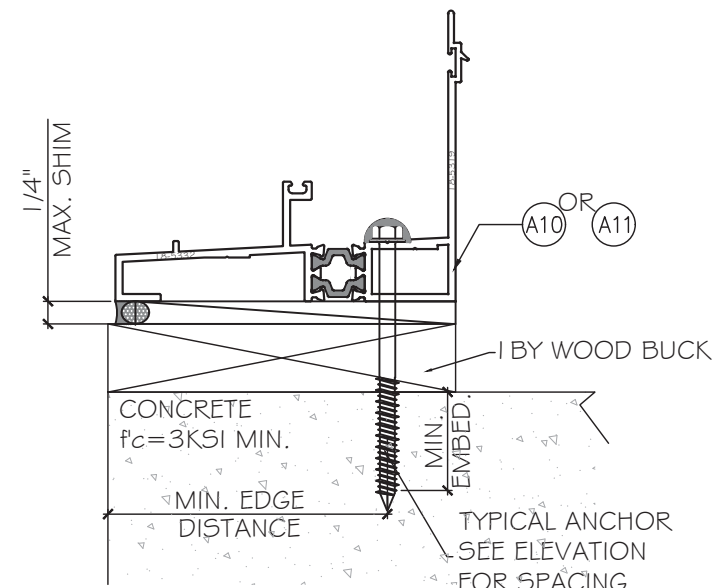
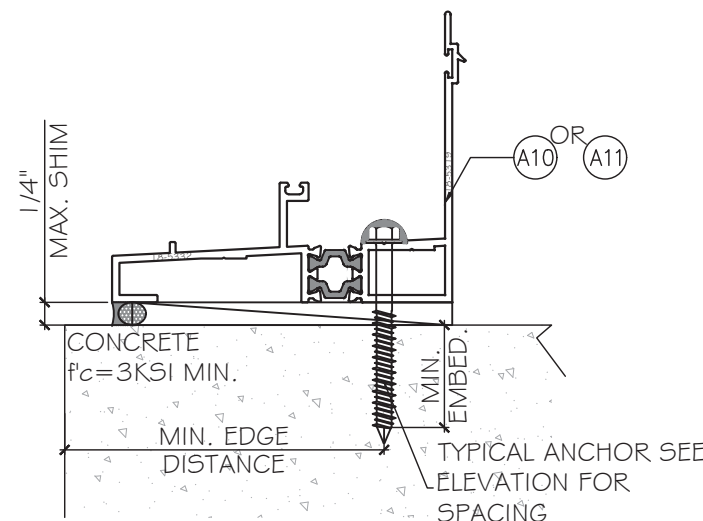
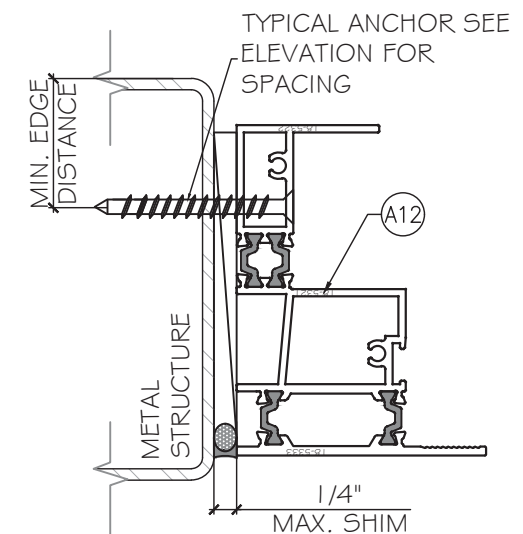
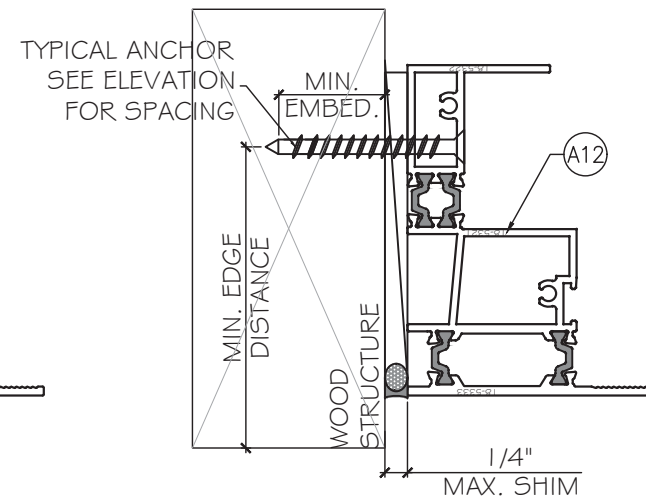
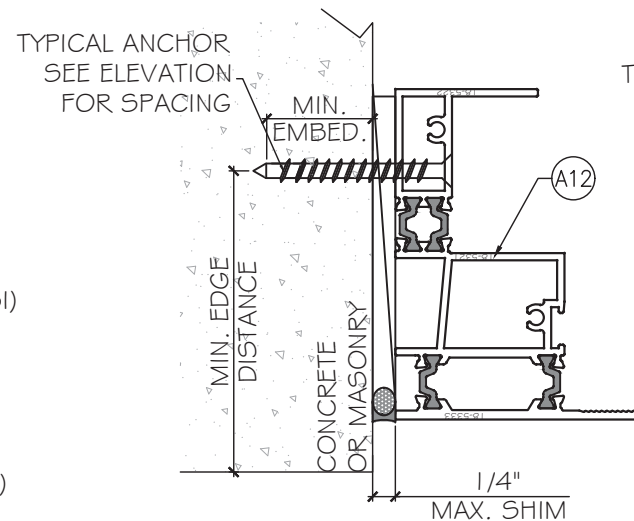
THROUGH 1X WOOD BUCKS INTO CONCRETE OR MASONRY
1 3/4" MIN. EMBEDMENT INTO CONCRETE (HEAD/ JAMB/ SILL)
1 3/4" MIN. EMBEDMENT INTO HOLLOW OR GROUT FILLED BLOCK (JAMB ONLY)

ANCHOR TYPE 'B' - 1/4" DIA. ULTRACON+ BY 'DEWALT'(F_u=164KSI, F_y=148KSI) DIRECTLY INTO CONCRETE
W/1 3/4" MIN. EMBEDMENT

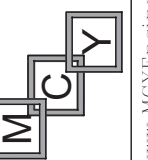
ANCHOR TYPE 'C' - 1/4" DIA. TEKS/SELF DRILLING SCREW (GRADE 5 CRS) INTO F.B.C. APPROVED MULLIONS OR INTO METAL STRUCTURES.
(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE

ALUMINUM: 1/8" THK. MIN. (6063-T5, MIN)
STEEL: 1/8" THK. MIN. (F_y=36KSI MIN)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
ANCHOR EDGE DISTANCE:
INTO WOOD STRUCTURE: 1" MIN
INTO METAL: 3/4" MIN.
INTO CONCRETE OR MASONRY: 2 1/2" MIN.

SUBSTRATE:
WOOD, SG = 0.55 MIN.
CONCRETE AT HEAD/SILL/JAMB, f_c = 3000 PSI MIN.
C-90 HOLLOW /FILLED BLOCK AT JAMBS: f_m=2000 PSI MIN.



MCY ENGINEERING, INC.
GLAZING CONSULTANTS



12781 MIRAMAR PKWY #301
MIRAMAR, FL 33027 P: 305.271.0117
www.MCYEngineering.com MCY@mcyengineering.com

SERIES TH-SH-33 ALUMINUM SINGLE HUNG WINDOW - LMI

CUHADAROGLU METAL SAN.PAZ.A.S

YAKUPLU MAH. HURRIYET BULVARI NO:6-8 BEYLIKDUZU
ISTANBUL, TURKIYE 34524

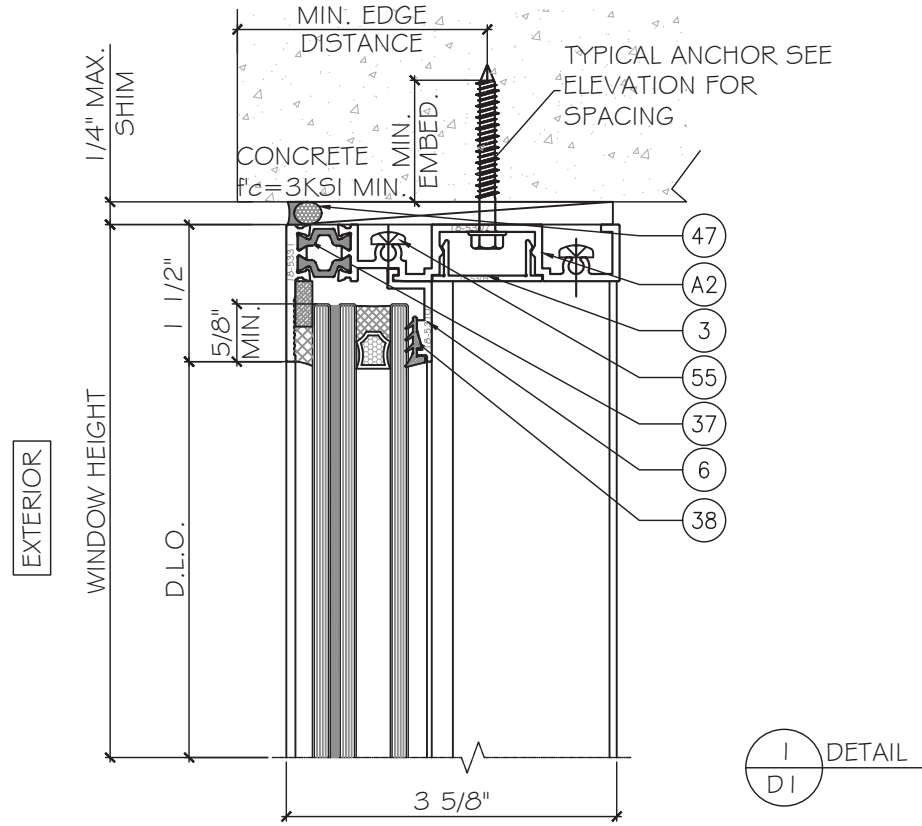
TEL. +90 212 224 2020 FAX. +90 212 224 2040

Rev. No.	Date	Drawn By	Description
RO	06.16.2023	James	NEW APPLICATION

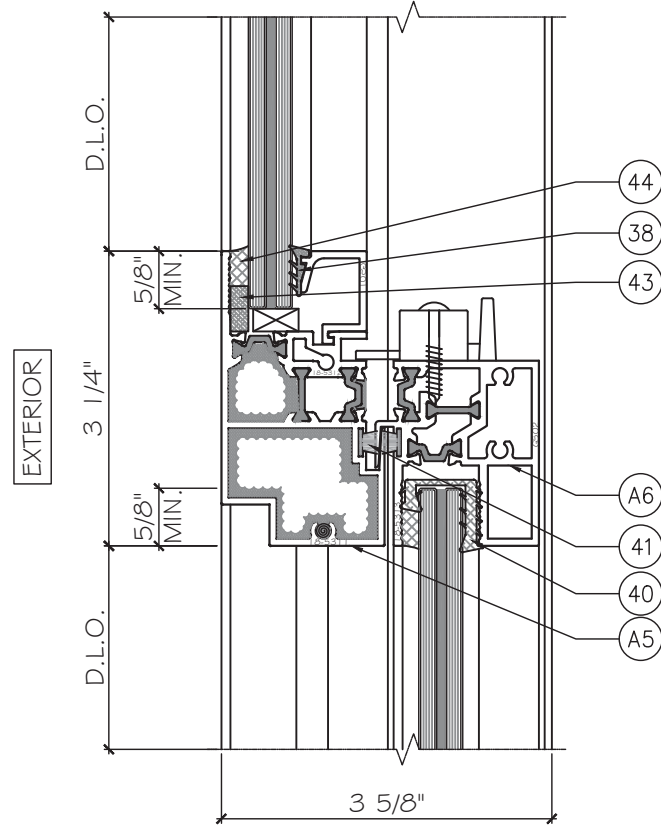
Drawn Date 05/30/2023 Scale

DRAWING NO.
AD23-08

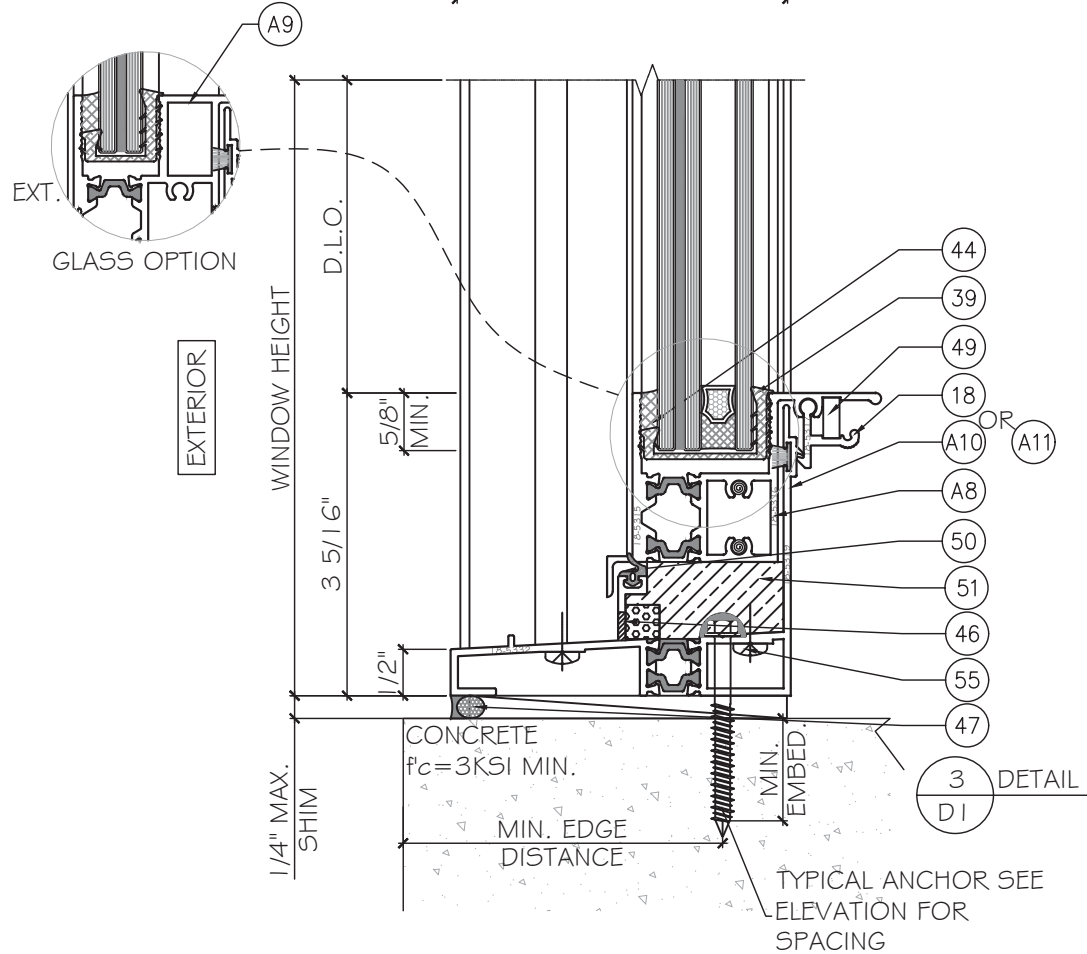
Sheet No.
A1
5 OF 13



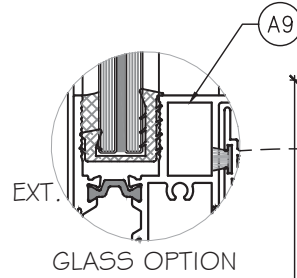
1
D1
DETAIL



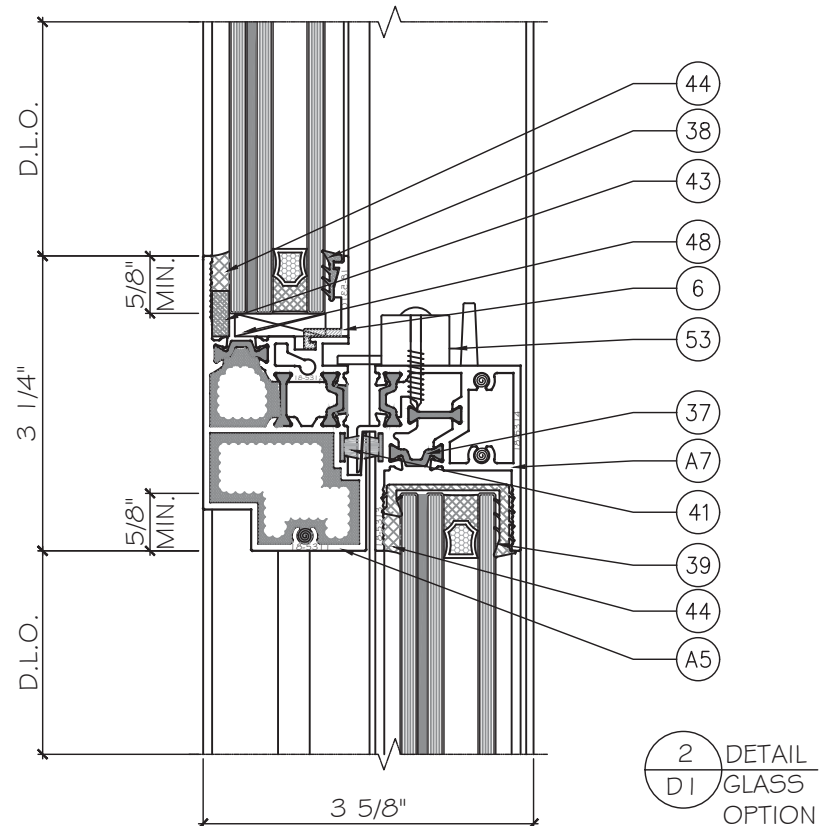
2
D1
DETAIL



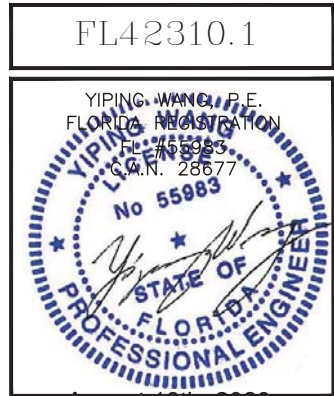
3
D1
DETAIL



GLASS OPTION



2
D1
DETAIL
GLASS
OPTION



August 18th, 2023

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PKWY #301

MIRAMAR, FL 33027

P: 305.271.0117

www.MCYEngineering.com

MCY@mcyeengineering.com

SERIES TH-SH-33 ALUMINUM SINGLE HUNG WINDOW - LMI

CUHADAROGLU METAL SAN.PAZ.A.S

YAKUPLU MAH. HURRIYET BULVARI NO:6-8 BEYLIKDUZU

ISTANBUL, TURKIYE 34524

TEL. +90 212 224 2020 FAX. +90 212 224 2040

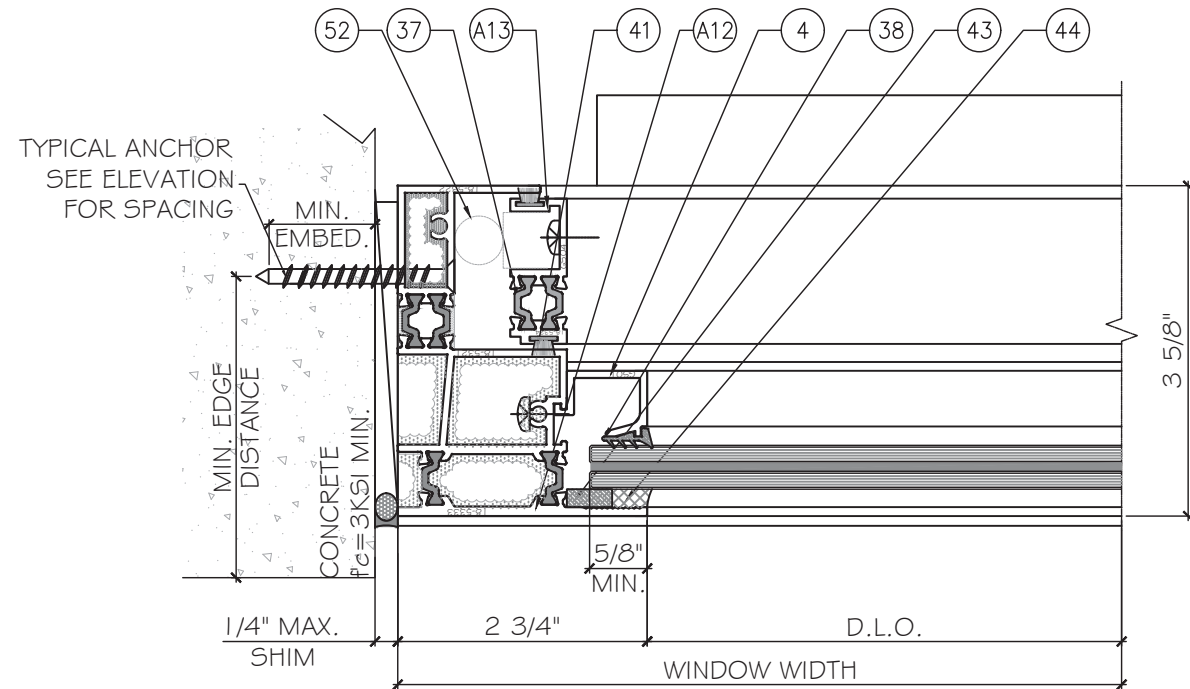
Rev. No.	Date	Drawn By	Description
RO	06.16.2023	James	NEW APPLICATION

Drawn Date 05/30/2023 Scale

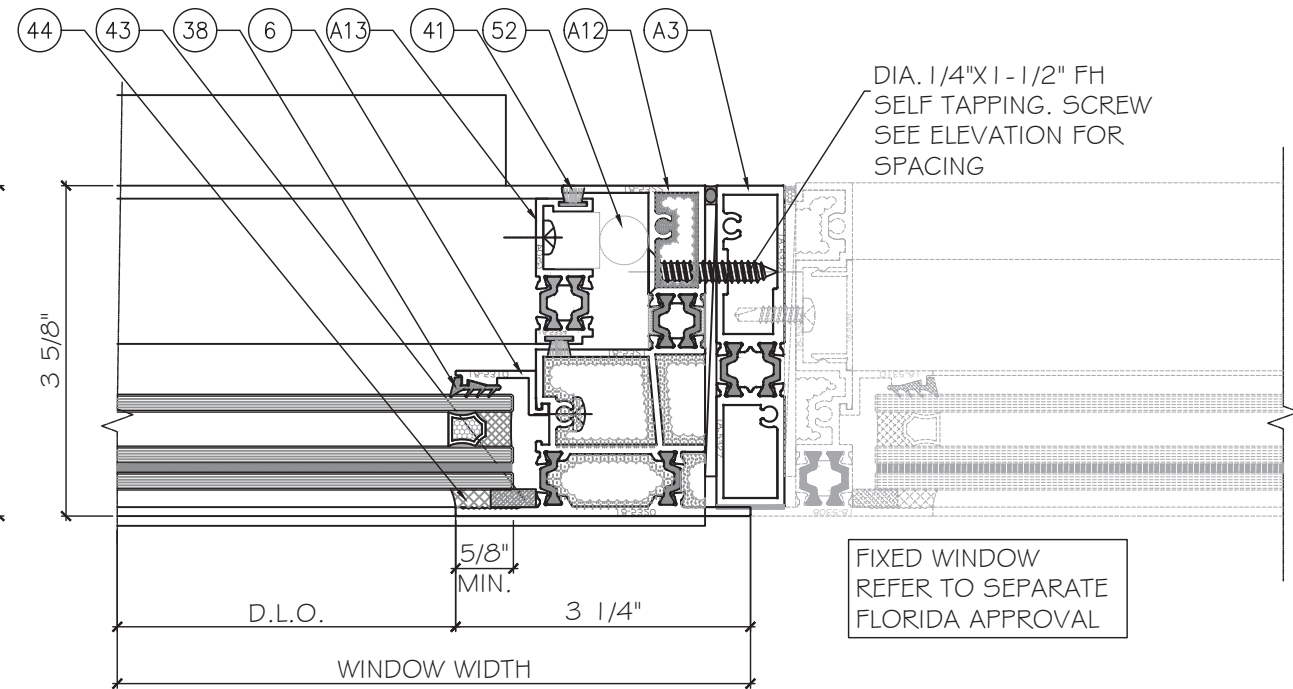
DRAWING NO. AD23-08

D1

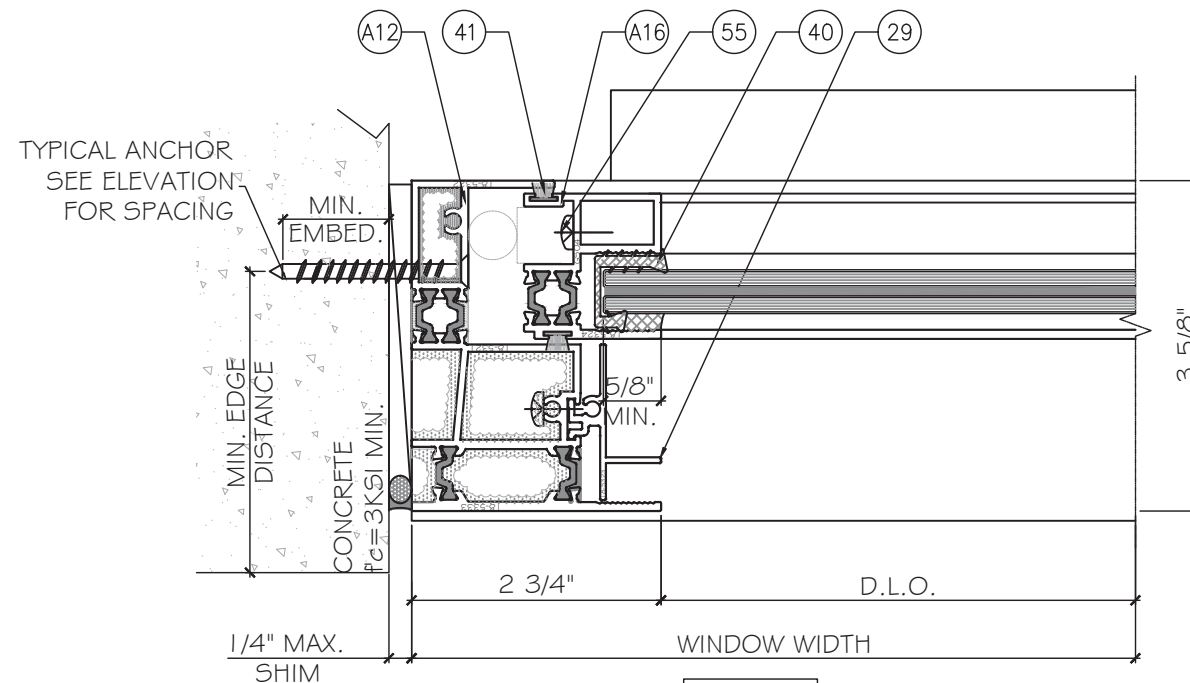
Sheet No. 6 OF 13



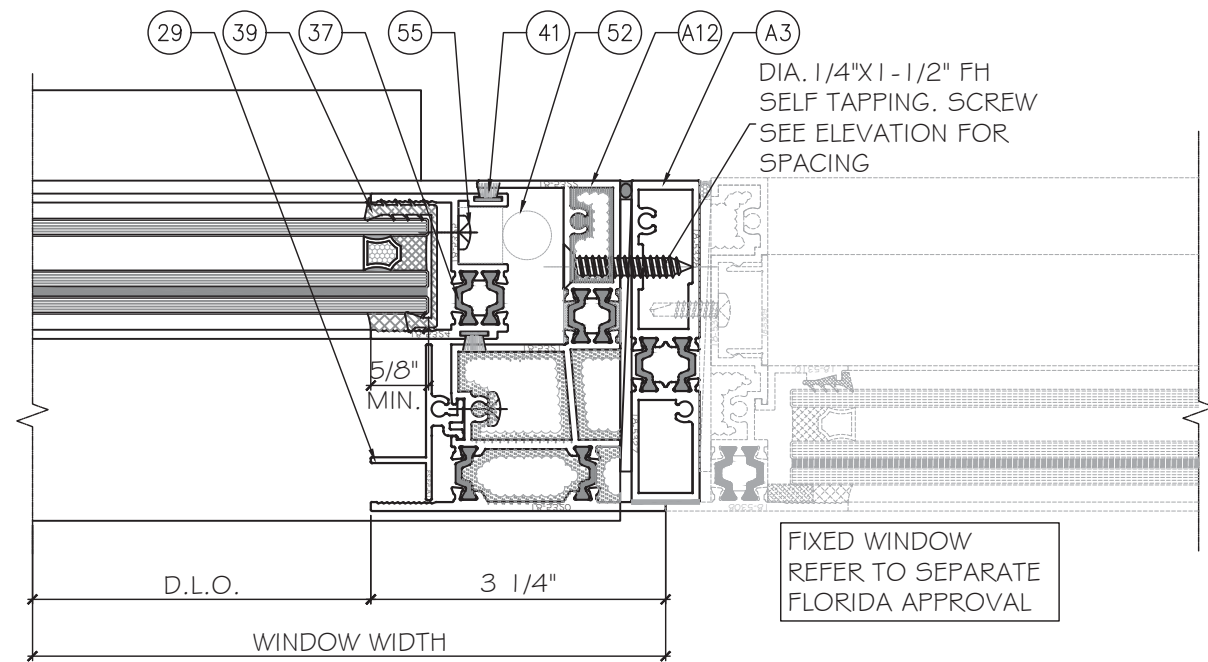
EXTERIOR
1
D2
DETAIL



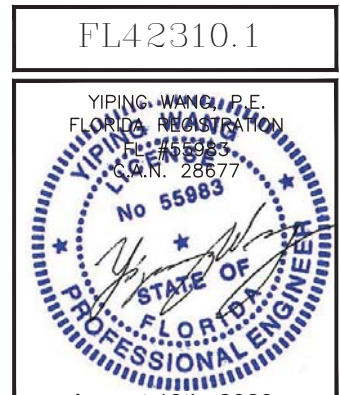
EXTERIOR
2
D2
DETAIL



EXTERIOR
3
D2
DETAIL



EXTERIOR
4
D2
DETAIL



August 18th, 2023

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PKWY #301

MIRAMAR, FL 33027

P: 305.271.0117

www.MCYEngineering.com

MCY

SERIES TH-SH-33 ALUMINUM SINGLE HUNG WINDOW - LMI

CUHADAROGLU METAL SAN.PAZ.A.S

YAKUPLU MAH. HURRIYET BULVARI NO:6-8 BEYLIKDUZU

ISTANBUL, TURKIYE 34524

TEL. +90 212 224 2020 FAX. +90 212 224 2040

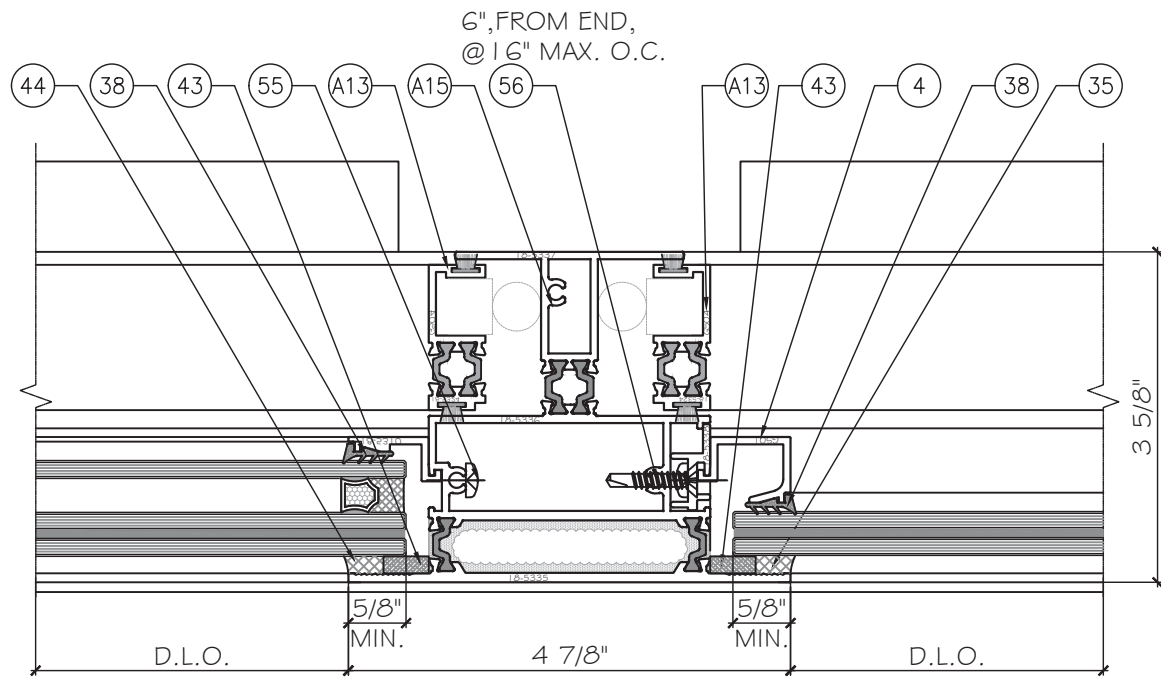
Rev. No.	Date	Drawn By	Description
RO	06/16/2023	James	NEW APPLICATION

Drawn Date 05/30/2023 Scale

DRAWING NO. AD23-08

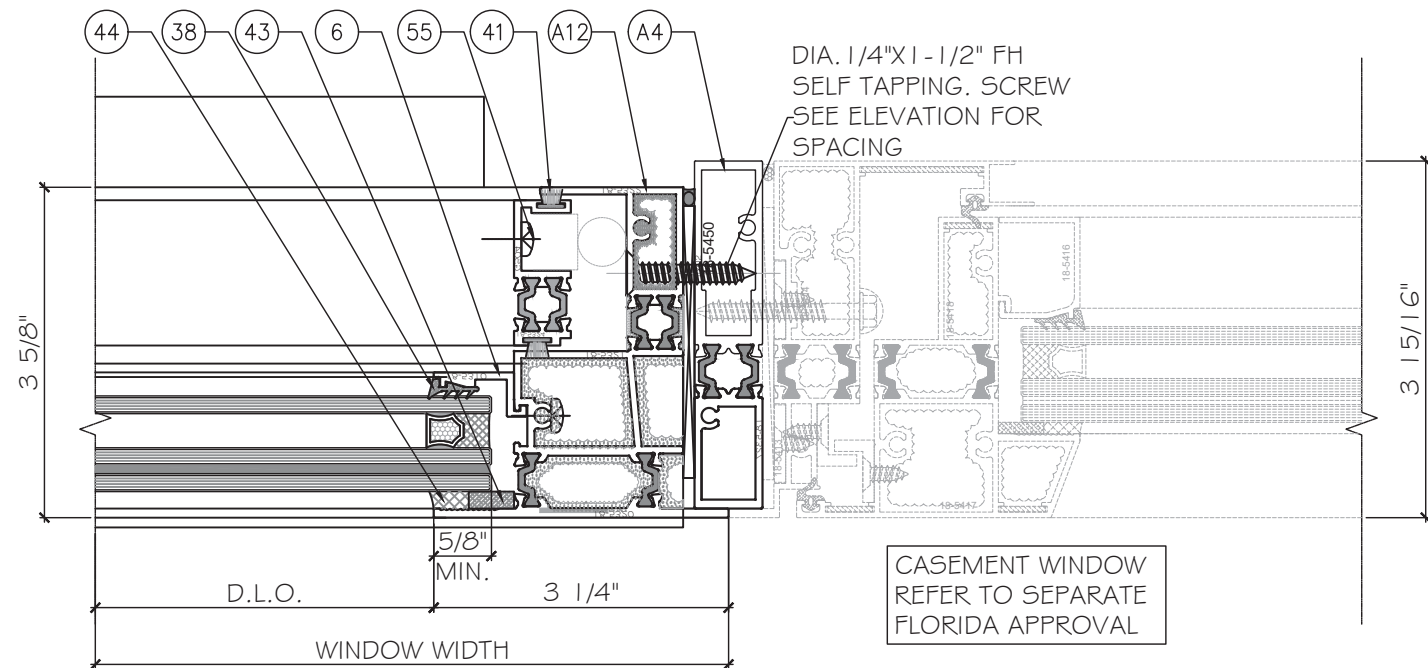
D2

Sheet No. 7 OF 13



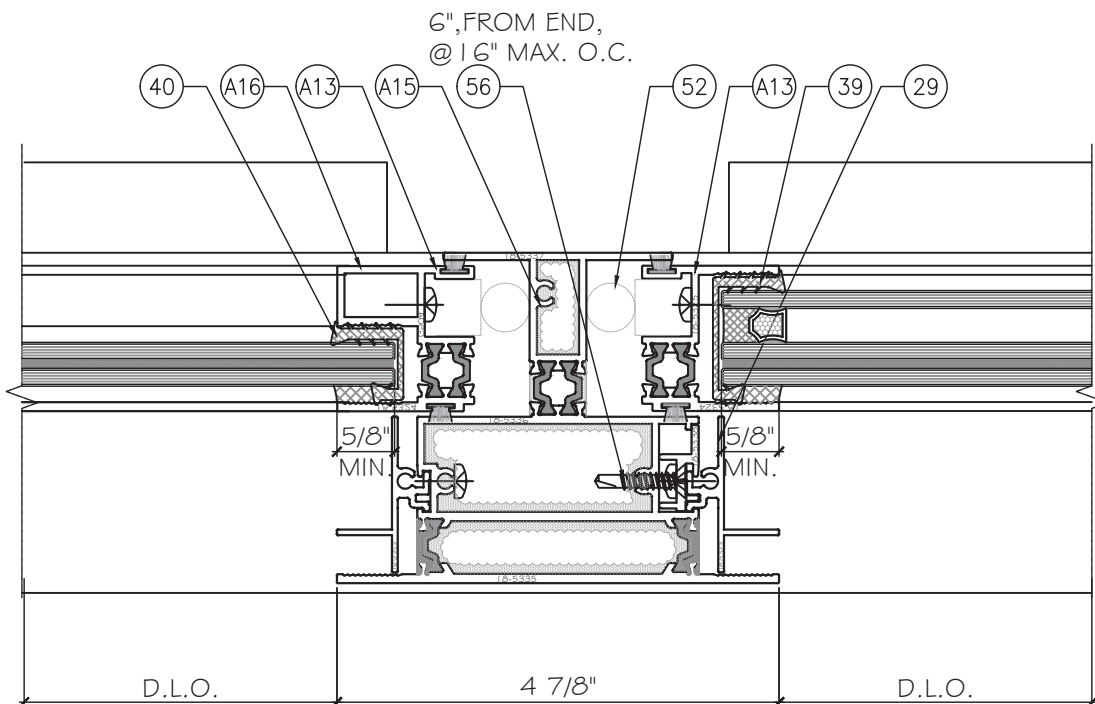
EXTERIOR

1
D3
DETAIL



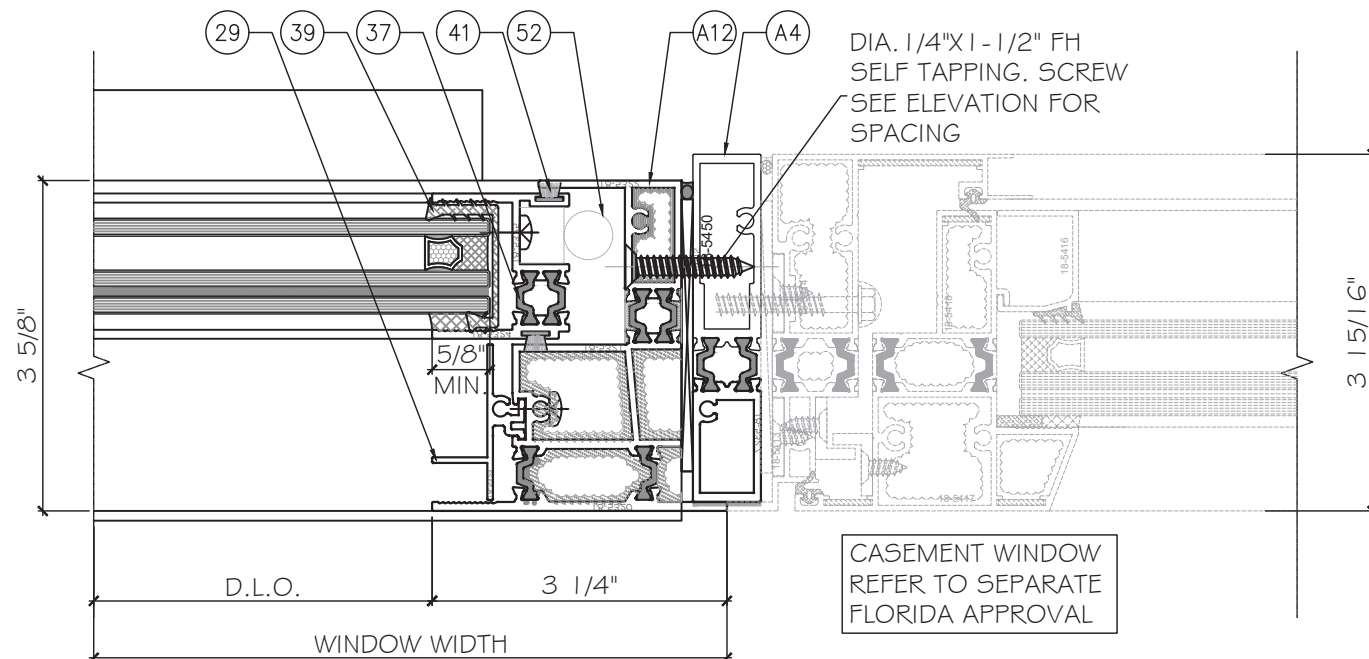
EXTERIOR

2
D3
DETAIL



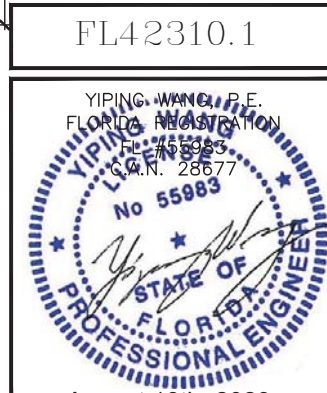
EXTERIOR

3
D3
DETAIL



EXTERIOR

4
D3
DETAIL



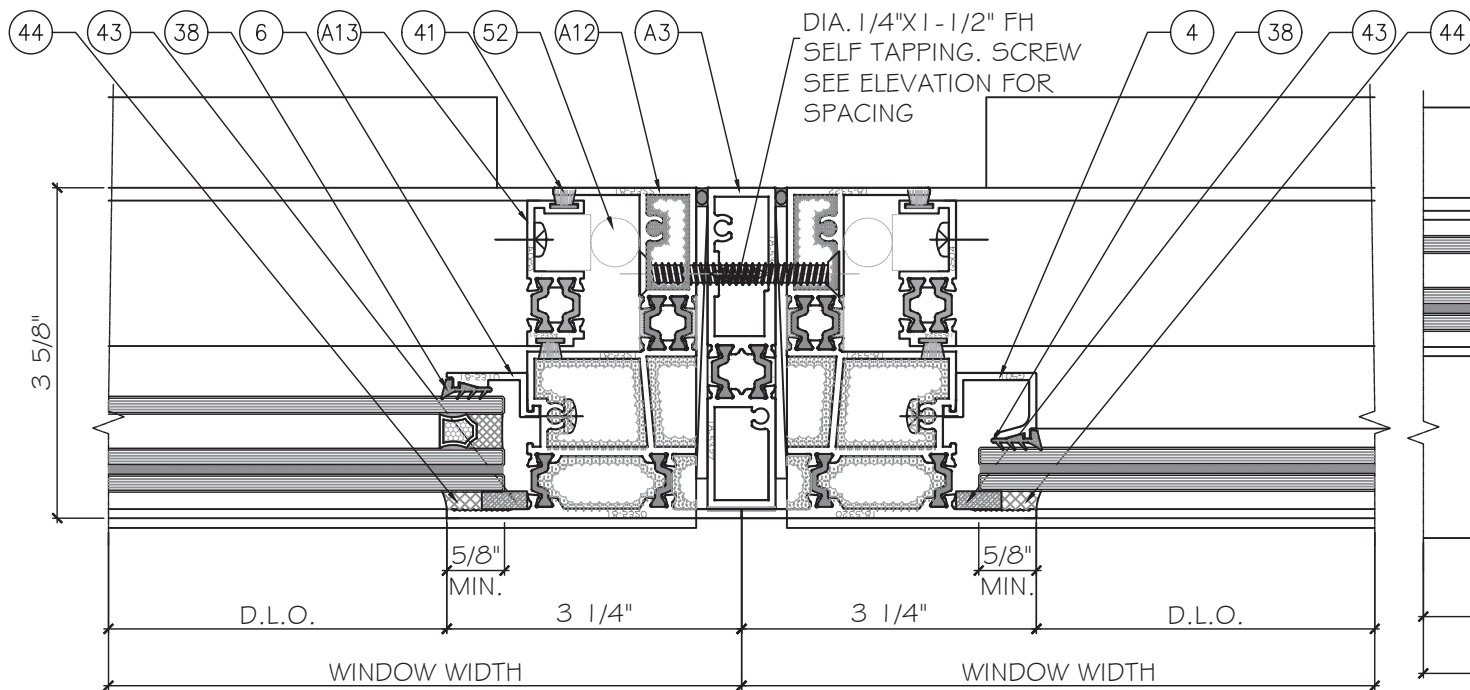
Rev. No.	Date	Drawn By	Description
06-16-2023	James	NEW APPLICATION	
D3			
8 OF 13			

AD23-08

FL42310.1

YIPING WANG, P.E.
FLORIDA REGISTRATION
NO. 55983
G.C.N. 28677

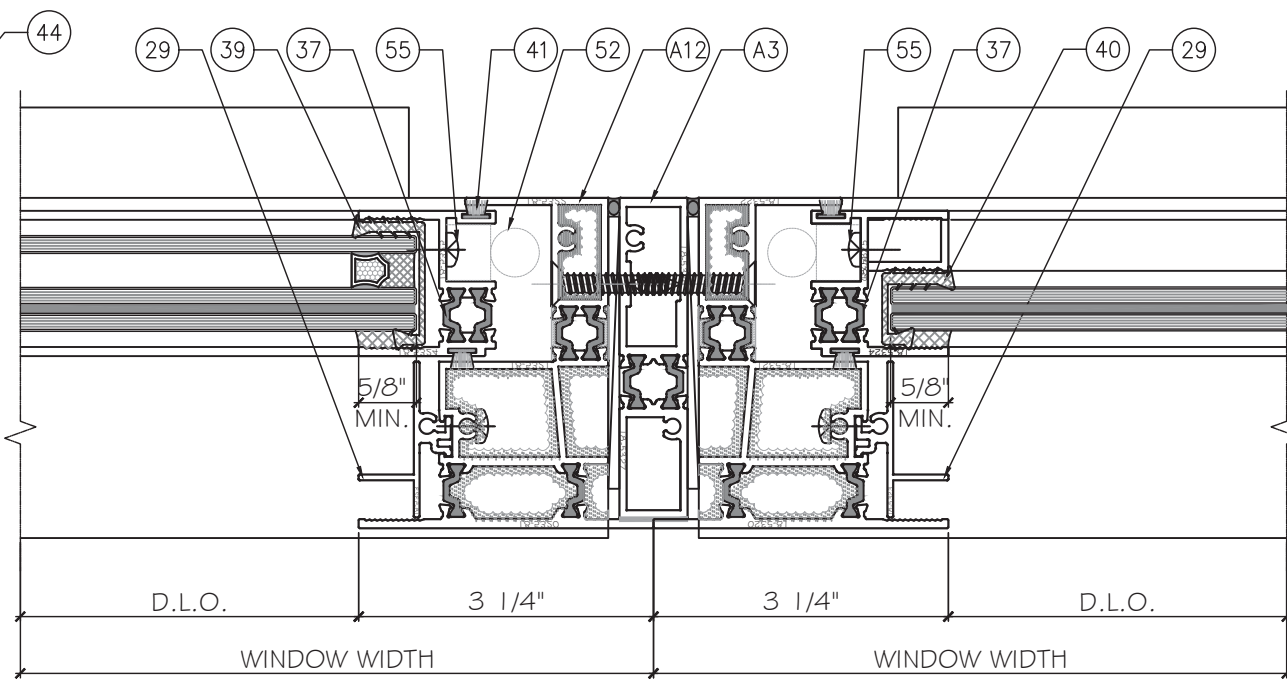
August 18th, 2023



EXTERIOR

1
D4

DETAIL



EXTERIOR

2
D4

DETAIL

FL42310.1

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55983
C.O.N. 28677

August 18th, 2023

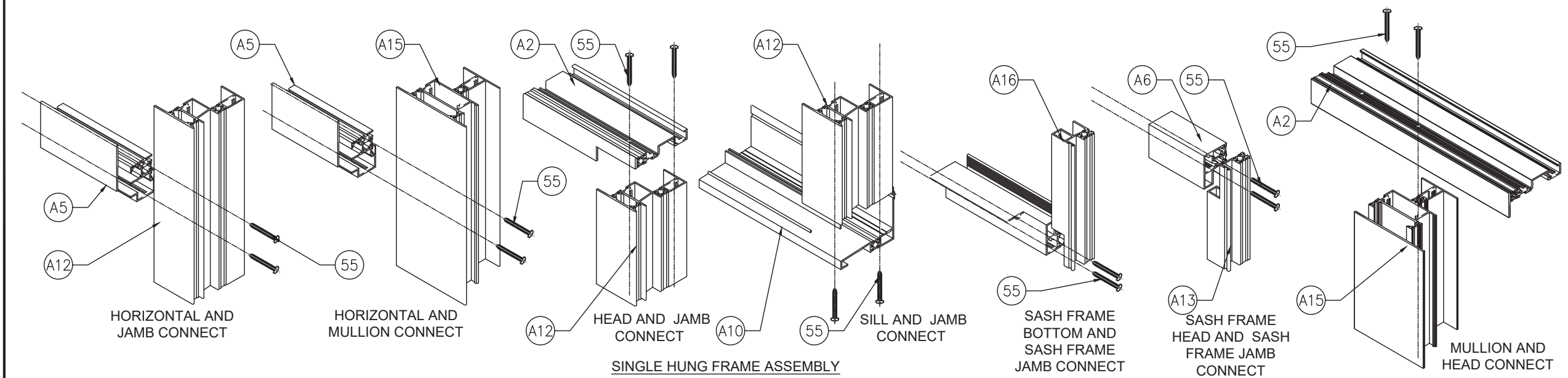
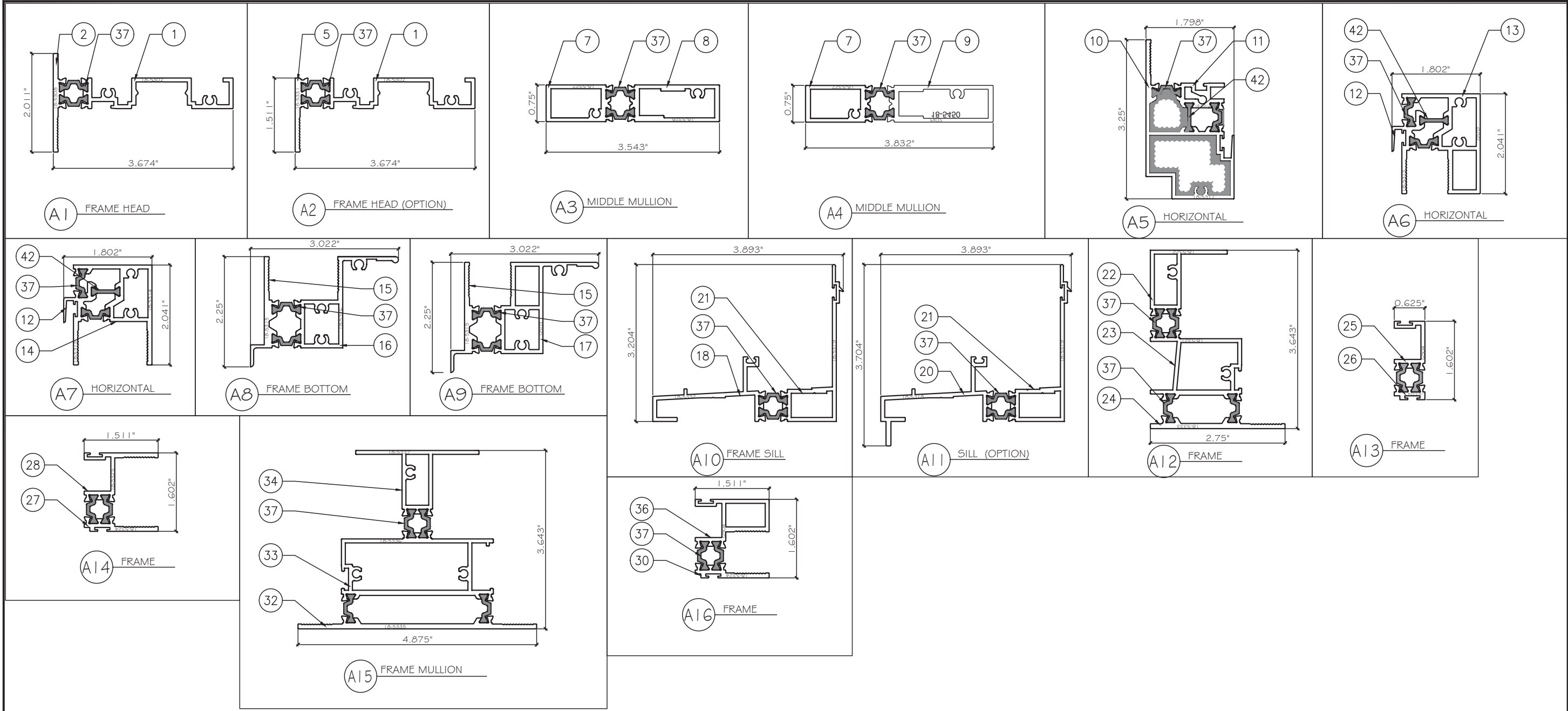
MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PKWY #301
MIRAMAR, FL 33027 P: 305.271.0117

www.MCYEngineering.com MCY@mcyeengineering.com

CUHADAROGLU METAL SAN.PAZ.A.S
YAKUPLU MAH. HURRIYET BULVARI NO:6-8 BEYLIKDUZU
ISTANBUL, TURKIYE 34524
TEL. +90 212 224 2020 FAX. +90 212 224 2040

SERIES TH-SH-33 ALUMINUM SINGLE HUNG WINDOW - LMI		NEW APPLICATION		Description	
Drawn Date	05/30/2023	Rev. No.	RO	Drawn By	James
D423-08		D4			
Sheet No.		9 OF 13			



FL42310.1

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55983
August 18th, 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PKWY #301
MIRAMAR, FL 33027
P: 305.271.0117
www.MCYEngineering.com MCY@mcyengineering.com

SERIES TH-SH-33 ALUMINUM SINGLE HUNG WINDOW - LMI

CUHADAROGU METAL SAN.PAZ.A.S
YAKUPLU MAH. HURRIYET BULVARI NO:6-8 BEYLIKDUZU
ISTANBUL, TURKIYE 34524
TEL. +90 212 224 2020 FAX. +90 212 224 2040

Rev. No.	Date	Drawn By	Description
RO	06.16.2023	James	NEW APPLICATION

Drawing Date: 05/30/2023

DRAWING NO. AD23-08

PART

Sheet No. 10 OF 13

BILL OF MATERIALS

ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
1	18-5307	HEAD FRAME	6063-T6	
2	18-5308	HEAD FRAME COVER	6063-T6	
3	18-5309	INTERIOR COVER	6063-T5	
4	G501	LAMINATED GLASS STOP	6063-T6	
5	18-5331	HEAD COVER	6063-T6	
6	18-5310	INSULATED GLASS STOP	6063-T6	
7	18-5327	MIDDLE MULLION EXTERIOR	6063-T6	
8	18-5328	MIDDLE MULLION INTERIOR	6063-T6	
9	18-5450	MIDDLE MULLION INTERIOR (LONG)	6063-T6	
10	18-5311	HORIZONTAL	6063-T6	
11	18-5312	HORIZONTAL	6063-T6	
12	18-5313	HORIZONTAL	6063-T6	
13	G502	HORIZONTAL	6063-T6	
14	18-5314	HORIZONTAL	6063-T6	
15	18-5315	HORIZONTAL	6063-T6	
16	G503	BOTTOM	6063-T6	
17	18-5316	BOTTOM	6063-T6	
18	18-5317	LOADED LATCH	6063-T6	
19	18-5332	SILL	6063-T6	
20	18-5318	SILL	6063-T6	
21	18-5319	SILL	6063-T6	
22	18-5322	FRAME	6063-T6	
23	18-5321	FRAME	6063-T6	
24	18-5333	FRAME	6063-T6	
25	G504	FRAME	6063-T6	
26	18-5324	FRAME	6063-T6	
27	18-5324	FRAME	6063-T6	
28	18-5325	FRAME	6063-T6	
29	18-5323	EXTERIOR COVER	6063-T5	
30	18-5324	FRAME	6063-T6	
31	18-5325	FRAME	6063-T6	
32	18-5335	MIDDLE MULLION FRONT COVER	6063-T6	
33	18-5336	MIDDLE MULLION	6063-T6	
34	18-5337	MIDDLE MULLION	6063-T6	

FL42310.1



~~August 18th, 2023~~

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PKWY #301
MIRAMAR, FL. 33027 P: 305.271.0117

www.MCYEngineering.com
MCY@mcvengineering.com

SERIES TH -SH-33 ALUMINUM SINGLE HUNG WINDOW - LMI

CUHADAROGLU METAL SAN.PAZ.A.S

YAKUPLU MAH. HURRIYET BULVARI NO:6-8 BEYLİKDUZU

ISTANBUL, TURKIYE 34524

TEL: +90 212 224 2020 FAX: +90 212 224 2040

[illegible]

Drawn Date

AD23-08

BOM

Sheet No

12 OF 13

BILL OF MATERIALS				
ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
35	18-5338	FRAME	6063-T6	
36	G504	FRAME	6063-T6	
37	SH25 937600	THERMAL BROKEN BAR		TECHNOFORM BAUTEC 1 937600
38	SH-28	GLAZING GASKET/SPACER	EPDM (70 DURO)	
39	SH-27	INSULATED GLAZING GASKET	SILICONE	
40	SH-27	LAMINATED GLAZING GASKET	SILICONE	
41	SH-30	PILE		ULTRAFAB
42	SH26 945500	THERMAL BROKEN BAR		
43	-	GLAZING TAPE	HIGH DENSITY POLYURETHANE TAPE	
44	-	STRUCTURAL SEALANT, TREMCO SPECTREM 2	SILICONE	TREMCO
45	-	WEATHER SEALANT, TREMCO SPECTREM 1	SILICONE	TREMCO
46	-	FOAM BAR		
47	-	WEATHER SEALANT TREMCO SPECTREM 1 & BACKER ROD		
48	-	SETTING BLOCK, EPDM (70 DURO.)	EPDM	
49	-	MECHANICAL SPRING		
50	SH-29 TR-10809	INTERIOR GASKET		
51	-	EPDM PAD		
52		SPIRAL BALANCE STRYBUC 88L SERIES ULTRALIFT 43/64" HEAVY DUTY TUBE BALANCE		
53		STRYBUC SWEEP LOCKS 2-13/16" AND 2-1/4".		
54		DIA. 1/4"X1-1/2" FH SELF-TAPPING. SCREW	STAINLESS STEEL	
55		#10X1 1/2" LG SELF-TAPPING SCREW, FRAME ASSEMBLY.	STAINLESS STEEL	
56		DIA.3/16"X1" FH SELF-DRILLING SCREW	STAINLESS STEEL	

YIPING WANG, P.E.
FLORIDA REGISTRATION
FL # 55983
C.C.N. 28677



The seal is a circular blue stamp. The outer ring contains the text "YIPING WANG, P.E." at the top and "FLORIDA REGISTRATION" at the bottom. Inside the ring, the text "No 55983" is printed. A signature, "Yiping Wang", is written across the center of the seal. Below the signature, the words "STATE OF" and "FLORIDA" are printed, followed by "PROFESSIONAL ENGINEER" at the bottom.

SERIES TH-SH-33 ALUMINUM SINGLE HUNG WINDOW - LMI

CUHADAROGLU METAL SAN.PAZ.A.S

YAKUPLU MAH. HURRIYET BULVARI NO:6-8 BEYLIKDUZU
ISTANBUL, TURKIYE 34524

TEL. +90 212 224 2020 FAX. +90 212 224 2040

R0	08/16/2023	James	NEW APPLICATION
Rev. No.	Date	Drawn By	Description

Drawn Date 05/30/2023	Scale
--------------------------	-------

DRAWING NO.
AD23-08

BOM

Sheet No.
13 OF 13

 **MCY ENGINEERING, INC.**
GLAZING CONSULTANTS
12781 MIRAMAR PKWY #301
MIRAMAR, FL 33027 P: 305.271.0117
www.MCYEngineering.com MCY@mcyengineering.com